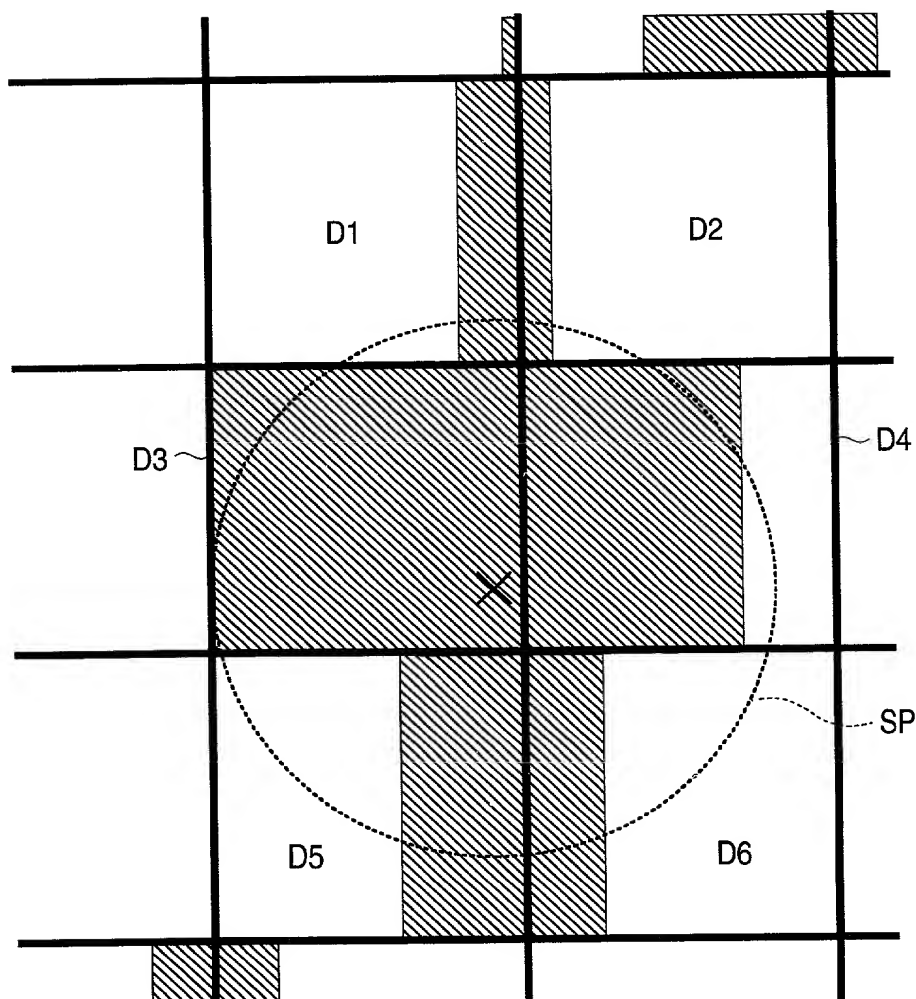


FIG. 1

EXAMPLE OF HALFTONE SPOT



(1) HALFTONE SPOT SHAPE

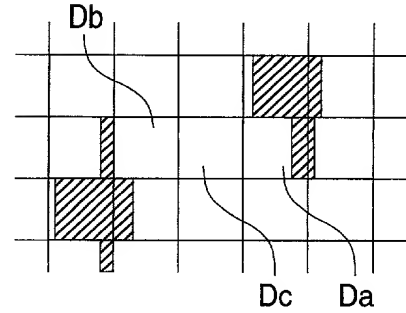
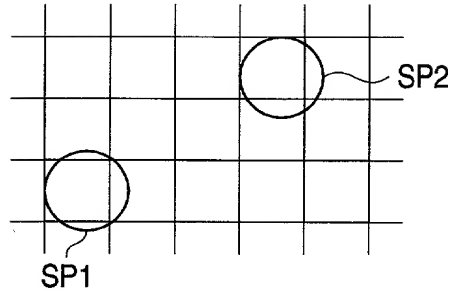
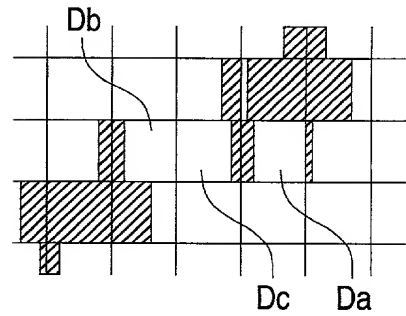
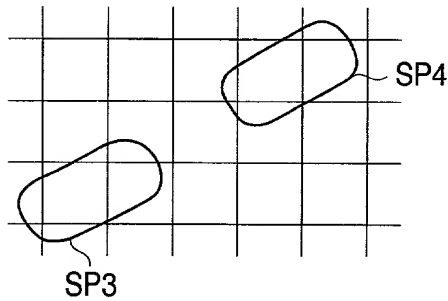
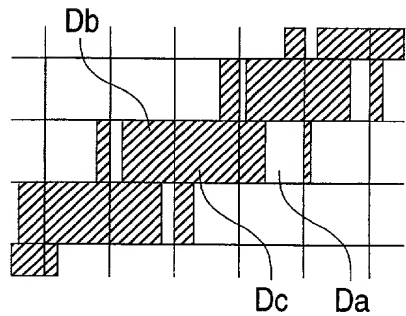
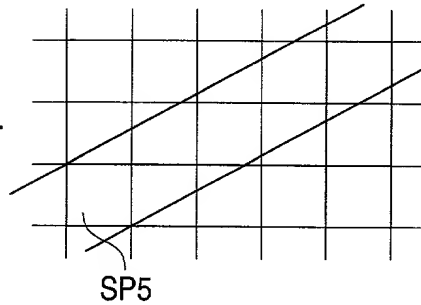
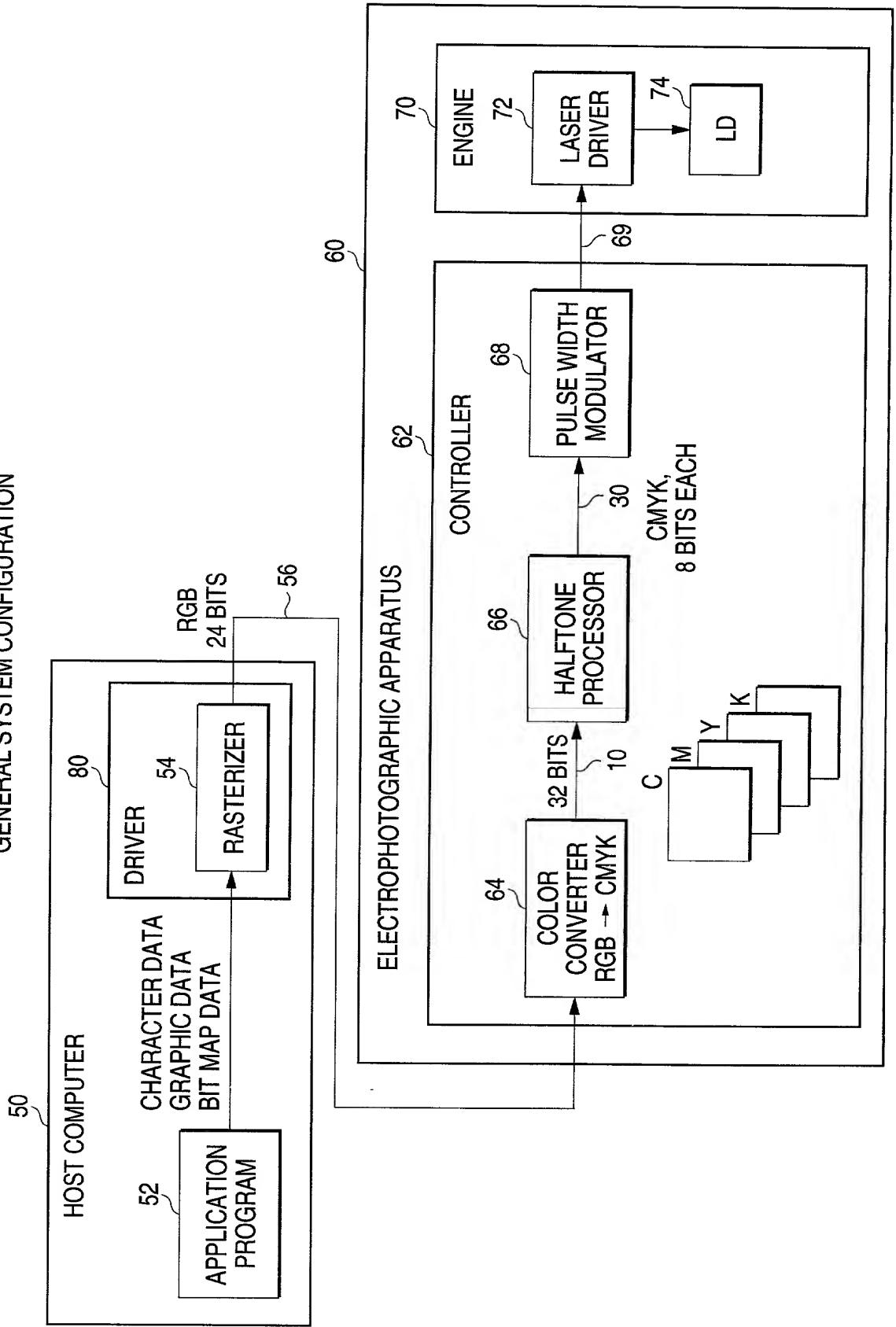
(2) VIRTUAL DOT TO OBTAIN
HALFTONE SPOT SHAPE**FIG. 2 (A)**
LOW GRAY LEVEL**FIG. 2 (B)**
INTERMEDIATE
GRAY LEVEL**FIG. 2 (C)**
HIGH GRAY LEVEL

FIG. 3

GENERAL SYSTEM CONFIGURATION



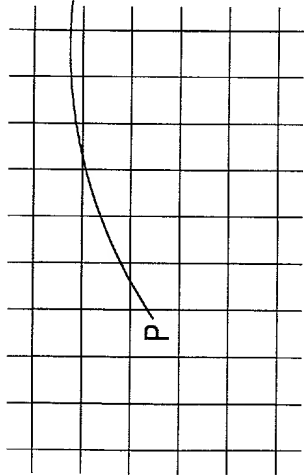
TRANSFORMATION TABLE (1)

FIG. 4 (A)

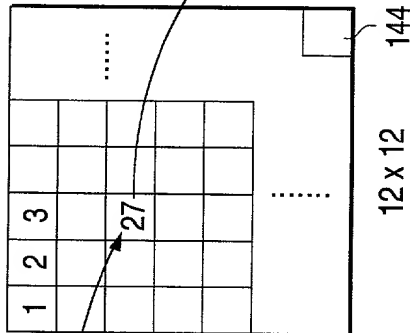
FIG. 4 (B)

FIG. 4 (C)

IMAGE DATA



PATTERN MATRIX



LOOK-UP TABLE GROUP

	INPUT LEVEL				
	0	1	2	.....	255
1	0, PP	0, PP	0, PP		255, PP
2	0, PP	0, PP	0, PP		255, PP
3	0, PP	0, PP	0, PP		255
⋮					
27	0, PP	0, PP	0, PP	.....	255, PP
⋮					
⋮					
144	0, PP	0, PP	0, PP		255, PP

PW, PP

255

144

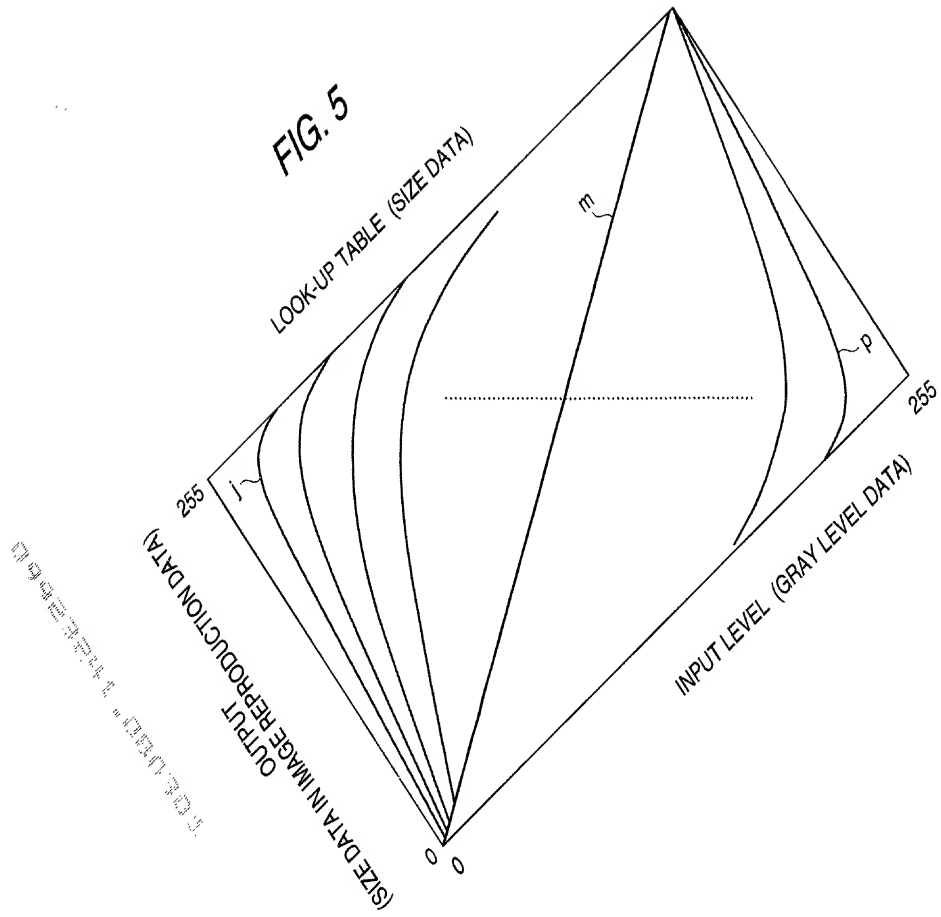
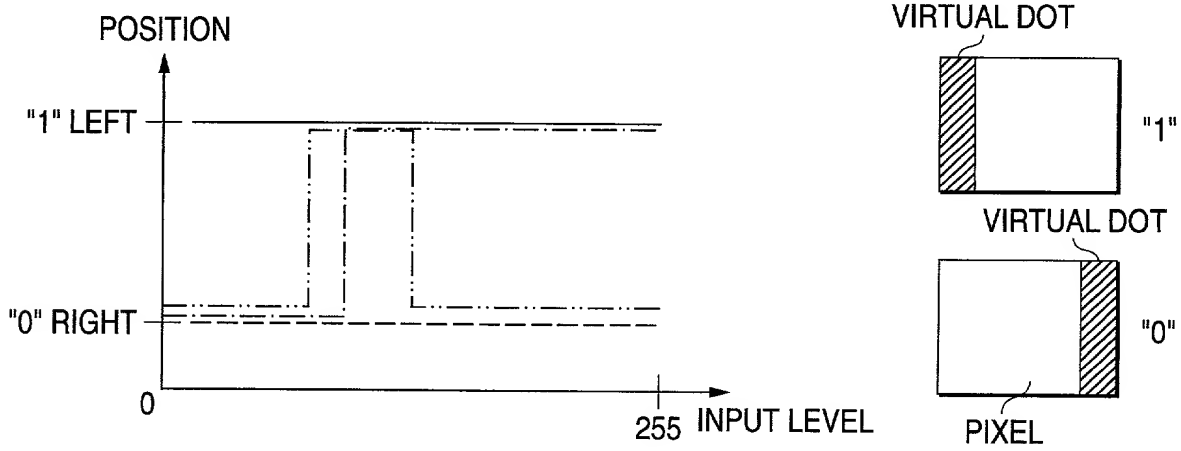
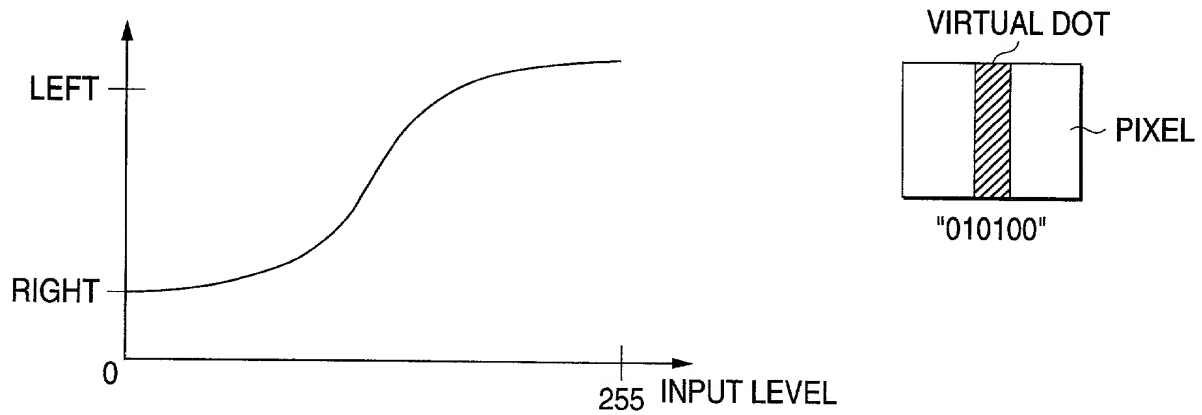


FIG. 6 (A)

POSITION LOOK-UP TABLE (POSITION DATA FOR ONE BIT)

**FIG. 6 (B)**

POSITION LOOK-UP TABLE (POSITION DATA FOR MULTIPLE BITS)



INDEX TYPE TRANSFORMATION TABLE

FIG. 8 (B-1)

SIZE PATTERN MATRIX
12 x 12

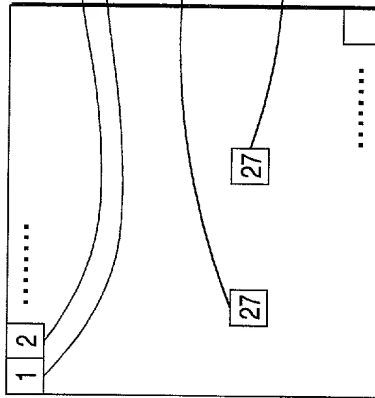


FIG. 8 (C-1)

SIZE LOOK-UP TABLE GROUP

INPUT LEVEL INDEX	0	1	.....	254	255
1	0	18	.....	254	255
.....	0	0	.....	220	255
27	0	0	.....	255	255
.....	0	0	.....	255	255
36	0	0	.....	255	255

FIG. 8 (B-2)

POSITION PATTERN MATRIX
12 x 12

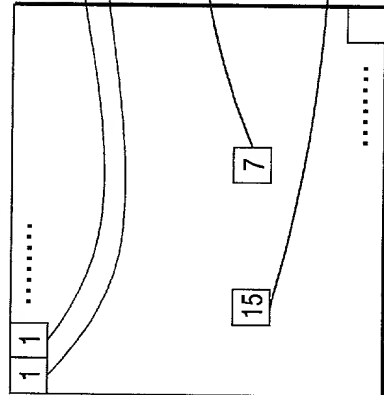


FIG. 8 (C-2)

POSITION LOOK-UP TABLE GROUP

INPUT LEVEL INDEX	0	1	.....	254	255
.....	PP1, PP2	.....	PP254, PP255	.....	PP254, PP255
7	PP1, PP2	.....	PP254, PP255	.....	PP254, PP255
.....	PP1, PP2	.....	PP254, PP255	.....	PP254, PP255
15	PP1, PP2	.....	PP254, PP255	.....	PP254, PP255

FIG. 9

EXAMPLE OF PATTERN MATRIX

D1, 1			D1, 4			D2, 7			D3, 10		
1	2	3	1	4	5	6	7	8	9	4	10
11	12	13	9	14	15	1	6	13	6	7	16
4	8	17	18	12	19	20	5	15	1	14	3
14	21	15	20	16	9	18	22	17	11	16	15
23	10	9	5	3	24	6	10	9	18	8	6
8	25	11	23	10	20	8	3	26	17	21	9
27	15	6	16	28	11	12	2	11	29	3	1
16	9	8	13	15	17	10	26	11	22	17	18
25	20	30	5	6	22	13	24	31	21	26	4
32	33	5	21	4	23	14	4	12	13	1	14
33	4	14	15	17	10	3	4	22	2	11	34
6	7	8	6	35	5	24	36	27	15	20	8

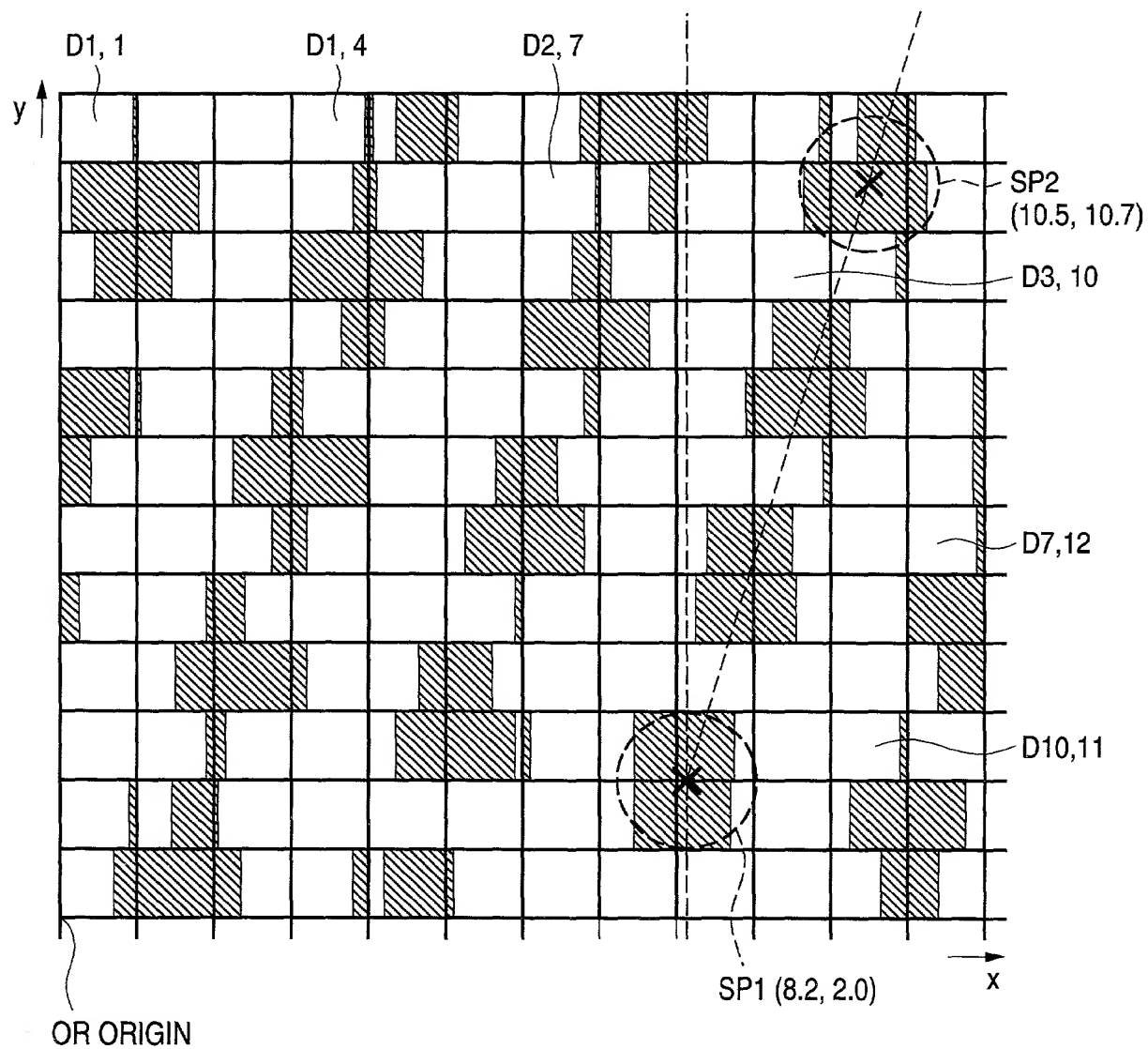
D7, 12

D10, 12

D10, 11

FIG. 10

EXAMPLE OF GROWN HALFTONE SPOTS



[illegible][illegible][illegible][illegible][illegible][illegible]

FIG. 12

ANOTHER SYSTEM CONFIGURATION

